PRICE FIVE CENTS.

## D' You Need Pants?

Last week we offered a great special in Knee Pants. This week we hurl a thunderbolt in the Men's Pants department. Surprise Special Sale No. 18 begins TO-MORROW.

Men's All-Wool Pants

The material is a substantial Cassimere, the pattern a stylish stripe, in various shades. They're truly elegant trousers, suitable for wear at any time-We offer only one pair to each customer and the sale absolutely ends next Satur-

day night. Other attractions in the Clothing Department are the famous \$5.00 all-Wool Men's Suits and the Black Clay Diagonal Suits, for dress occasions, at \$7.00.

In the Hat and Furnishing Departments

Clearance prices are the order of the day. Straw Hats are down to 24 cents, Negligee Shirts of percale and cheviot are down to 44 cents. All-Wool Bicycle Hose down to 49 cents.

Money back if any purchase does not please in every way.





## Do You Smoke?

If so, why not smoke the best? Everybody but you says the

General Arthur Cigar

Is the Best 10c Cigar Sold. Better Try It.

Louis G. Deschler, Distributor, Indianapolis, Ind.

This Week

This Week

# Plums Are Ripe!

Here are some "PLUMS" in the shape of SUIT, SKIKT and WAIST Bargains. The prices quoted herewith are made possible on account of the fact that we are overstocked on several lines of Suits, Skirts and Waists and also on account of our desire to clear stock and make ready for FALL and WINTER styles.

A Few Fine Black Mohair Suits, Jacket and Skirts, to close, in all sizes ..... \$5.75 White Pique Skirts, to reduce stock, All Silk Waists, choice \$4.25

Also: Don't fail to see our Fine Line of Children's garments. Big bargains in Bicy-

BESTEN & LANGENCO

Linen Suits, a few remaining \$5.00

cle Suits and Sweaters. Prices made to clear stock. BOYD.

HAVE JUST ADDED TO OUR STOCK THE

MUCH-ADVERTISED Bull's Eye Camera

IT CAN BE LOADED IN DAYLIGHT, AND IS VERY LIGHT AND SIMPLE. COMPLETE, WITH ILLUS-TRATED MANUAL, AT \$12.

CHARLES MAYER & CO., 29 and 31 W. Washington

. The Sunday Journal, by Mail, \$2 per

DESCRIPTION OF THE PRESENT PRO-CESSES OF GOLD REDUCTION.

How Gold Ore Looks and How the Cyanide Process Sucks It Out of Broken Rock and Cobble Stones.

(Copyrighted, 1896, by Frank G. Carpenter.) DENVER, July 23 .- I begin with this letis going on in the mining regions of the West. During the past three months I have traveled several thousand miles in the Rocky mountains. They are alive with prospectors. It is estimated that 2,000 men are climbing about the hills and canyons of California, Arizona and Nevada, There are hundreds of prospectors going carefully over the old mining regions of Colorado, and in Utah is now being developed a new gold region, which Salt Lake City men claim will produce more than enough to pay off the national debt. The gold now being mined at Cripple Creek is enormous in quantity, and there are other camps in Colorado which are turning out fortunes in gold-bearing rock. The new processes of gold reduction have changed almost entirely the character of gold mining and within the next few years the whole world will be reprospected for gold. It is hard to realize that gold is one of

the most common of all the metals, but this is the fact. Gold is to be found in pearly every part of the earth, but hitherto the cost of reduction has been so great and the quantity of gold so small that in only a few places could it be mined at a profit. Gold exists in the waters of the sea, and abandoned mines. The old dumps or waste of the mines which the Spaniards worked in Mexico will now be put through the new processes for getting out the gold, and the result will be fortunes. There is a vast quantity of low-grade gold in the eastern part of the United States. From Nova Scotia to Georgia runs a golden streak, which has at different points paid for mining. Nuggets have been recently found in Nova Scotia worth \$200, and last year a ugget was found in Crawford county, North Carolina, which weighed eight pounds five ounces. All of our gold up until 1827 came from North Carolina, and there | world. have long been gold mines in different parts of Georgia. There is a white quartz near mines have been worked in a small way near the national capital. There is a gold vein in New Hampshire, which, in 1817, Manhattan island which averaged \$4 a ton. abandoned which can new be worked by the new processes at a profit. There are valuable gold mines in the State of Washington, and the sands of the Pacific ocean, from Puget sound to the Aleutian islands, contain gold dust, and in some places they are new being panned by miners. There is probably a large amount of gold in British Alaska has an annual output of more than \$500,000 and from it has already been taken more than \$5,000,000 worth of gold. gold is of such a low grade that some years | Cripple Creek ores directly to them. ago no one would have thought of trying to mine it. Its average is between \$2.50 and \$3 per ton, and still at these low figures it gives the proprietors 100 per cent. profit-The gold of the Dakotas is of a low grade, and there are hundreds upon hundreds of square miles in Colorado which contain lowgrade ore. Wagon loads of rock picked up have assayed \$22 per ton, and old mines which have been abandoned are by the new processes now being worked at a profit.

THE GOLDEN ERA. You can never tell where gold is until you find it, say the old miners, and the years ago, worked for a time and abandoned. It was then sold. The buyers worked named Davis, who understood the peculiar ores of the Golden Fleece, took an option on the property for \$15,400. He applied new processes to the reduction of his ores, and the bond. On the strength of that carload he was offered such a price for the made \$75,000 on the deal. He went on min-

The reduction of the low-grade ores will The South African mines are to a large extent low grade. They produced \$40,000,000 worth of gold last year, and \$10,000,000 worth of this would have been lost had it out gold by the use of cyanide of potasthan \$10,000,000, our gold product last year gold Au 1895, will produce more in 1896. Attogether in 1895 the world produced nearly

IN THE MINING REGIONS brought about by a combination of new solution is introduced by means of pipes. brain, and he organized in our neighbor-

the world. THE NEW CHEAP PROCESSES. ter a series describing the revolution which however, is a very expensive process, cost- salt and sugar would be dissolved and go old family Shakspeare book was discovered tion is not more than 75 cents. I am told | the mush. The solution is still as clear that mills are now being put up in Parke | as crystal, and there is no sign of gold county, Colorado, which will treat ores for Now, each of these immense tanks has two 75 cents per ton and save 96 per cent, of the | bottoms. One is of solid material through gold, and more than half a million dollars | which the water cannot pass and the other of gold which would have been wasted has is of canvas. When the dust is first put been got out of Cripple Creek rock by in the bottom is double, with the solid botthe cyanide mill which I describe further tom beneath. After the liquid has been on. Then there is the chlorination process, long enough on the mush the solid bottom by which certain kinds of ore are treated is taken away and the solution containing are finally taken ingots of pure gold. There | and is carried away, leaving almost nothis the bromination process, somewhat simi- ing but the dirt behind. One tank of dust lar, and a method has been lately invented at the estimate of half an ounce of gold

rock by electricity. the extraction of the gold by means of in one hundred tons of ore. cyanide of potassium. Cyanide of potassium is a chemical which looks for all the to fifty cents a pound. It is made of the is as clear as crystal, and were it in a of gold. Central America has hundreds of | deadly poison. It has, however, a wonder- | know, however, that it has that \$970 worth ful affinity for gold, and when mixed with of gold in it, and the question is how to water and applied to the ore in a certain get it out. If it were salt or sugar, we way it will suck all of the gold out of the | might evaporate the water and the residue rock. This process of extraction was in- at the bottom would be a part of the sugar vented by two Scotchmen, and the first mill | and salt within it. But gold is not to be was put up in Australia in 1889. Then one got out in that way, It is taken from was put up in South Africa and in 1892 the first cyanide mill of the United States was erected in Boulder county, Colorado. There the rock. Gold as it exists in the cyanide from her eighty-four-year-old standpoint. are now more than fifty cyanide plants in | solution has a peculiar affinity for zinc, If "Yes'm, I done bin back to see ole Loos-South Africa. There are twenty-four in there is an atom of zinc next to one Australasia and something like twenty in these molecules of gold it will leave the laws, it's awful dirty. It looked awful different parts of the United States, with | cyanide water and stick to the zinc. But | lovely, of c'ose, but, mercy me, why don't a number of others going up all over the | zinc is expensive, and a large surface is | them folks down that clean out them ole

THE BIGGEST CYANIDE MILL. far erected is that of the Metallic Reducpay \$16 a ton, and within the past year gold | tion Works near Florence, which I visited | as the head of a pin. These, by means of a the other day. Into this mill are poured lathe, are turned into fine shavings, much pa'ments-yer has ter drap in ther gobcarloads of what look like cobble stones, like the excelsior used for packing dishes. railroad ballast or broken granite, and out yielded \$50,000, and gold has been mined on of it every month as a result comes a brick of solid gold, worth \$40,000. New works are There is gold in Ohio and our mountains of now being added, and by the time this letthe West have, it is believed, hundreds of | ter is published it will be four times as undiscovered golden veins. In the region large as it is now. It will then be able to between the Rockies and the Pacific so far | reduce 400 tons of gold ore a day, and, suphas been produced 99 per cent. of all the posing the rock to have only one-half ounce gold of the United States, and hitherto of gold to the ton, its output will be at the about through the zinc excelsior. As the many mines have been discovered and rate of \$6,000 per day, or about \$2,000,000 worth of gold per year. The works are situated on the edge of the Rocky mountains | the zinc until at last every bit of water has within two miles of the oil town of Florence. They look much like an immense wheat elevator or rudely built big Pennsylvania barns, but they contain the finest machinery of their kind in the world. They suck 97 per cent. of the gold out of the Columbia, the mountains of which have not rock, which passes through them, whereas the mills of South Africa, it is said, are able to save only from 60 to 80 per cent. These mills use petroleum as fuel, and the Florence Cripple Creek railroad brings the

Let us now take a trainload of goldbearing rock and follow it through this great mill. How the gold is got out of the mine I will describe in another letter. Our freight cars are filled with the ore. It and other stones of different colors. There is gravel in it. It contains dirt, and it is off the grazing fields about Cripple Creek for all the world like a pile of broken up rocks mixed with the refuse of a quarry of rotten granite. There is not a sign of gold anywhere. You can take up a piece of rock from any part of the carload and examine it through a microscope and you will not see a glint of yellow or anything which to your eyes would indicate gold. develop, in all probability, mines containing | Still, that rock will average a half an ounce the richest of ore, as well as low-grade of gold to the ton. In these carloads one is almost evenly mixed throughout the whole, and the question is to get it out. COSTLY DUST.

The superintendent of the works tells us not been for the new processes of getting pieces the size of a pea, and it is then had an increase in 1895 over its product of flour. It looks like dust, and it is composed greatest gold State of the Union. It pro- grains contains an infinitesimal quantity of gold, and this costly dust is worth a forget at least \$25,000,000 worth of gold out of it to and fro in your hands without scratchthe mountains during the present year. ing the skin, and it looks much like pow- der roof. In and out, and around the little There will be an enormous increase in the | dered pumice stone. It has, however, no gold product of Utah this year, and Cali- | gleam of gold, and were it on the road you fornia, which produced \$15,000,000 worth of | would drive your carriage through it with-

GOLDEN MUSH. The dust is now ready for its cyanide bath. It is loaded into cars and wheeled present ratio of increase goes on we shall | lar tanks made of steel. Each tank is in 1900 have an annual product of \$320,000,- about thirty feet in diameter and as high 900, and the world's stock will, between as your waist. Each will hold one hundred this time and that, have been increased | tons of this powdered dust. The cars run by more than \$3,000,000,000. These figures | along a little railroad which leads from one onceivable, but they are founded on | tank to another, and from which the dust

discoveries in natural resources and new The solution is a fluid as clear as crystal. | hood a very brilliant juvenile dramatic inventions as applied to mining, which It looks like water, but it is water contain- company, of which I was the leading lady. will revolutionize the financial system of | ing the poisonous cyanide of potassium. It | We gave many dazzling performances in takes about one pound of cyanide to get | the barn lofts of our vicinity, and nothing | the gold out of each ton of ore, and as the | was too ambitious for our attempting. But let me tell you something of these stuff runs through the dust the mixture Shakspeare, of course, was our familiar cheap methods which have lately been in- looks for all the world like brown mush. It | text-book, and it was my lot to study all vented for getting out gold. You have all is mush, but it is mush mixed with gold. | the prominent female parts. My brother heard of placer mining, or the washing of Now, by the affinity which the cyanide of was a rigid observer of the proprieties, and gold grain, nuggets or dust out of the beds | potassium has for gold, as the solution | before I began my theatrical career, he of rivers and the sides of mountains. The | runs through the sandy dust the gold | took our family Shakspeare and heavily first mining done was of this kind, and until leaves the earth and melts and assumes scored with black ink all the improper lately nine-tenths of all of the gold of the the form of a liquid and becomes a part passages in the plays, which under peril world was got out in this way. An of the solution. It is just as though you of death I was forbidden to read. My conenormous quantity was then produced by had a lot of salt or sugar mixed with dirt. | science was healthy and I strictly obeyed crushing the rock and smelting it. This, If you should put water on the dirt the his directions. In the course of time the ing \$14 and upward to the ton of rock, and | into the water. Well, that is the way the | to be lost or stolen. Naturally, we have ore which does not contain more than \$20 | gold does with this mixture of cyanide of often marvelled over its fate; and I, particper ton seldom pays the cost for smelting. potassium and water. It takes some time, | ularly, would much like to know what im-By the new processes if there is \$10 worth | however, for the solution to soak all of the | pression that old book, with all its imof gold in a ton of rock it can be got | gold out of the sand, and it is left for sev- | proper lines deeply marked, must have carout at a profit. There are immense ore | eral days upon it. At the end of this time | ried into the minds of those into whose bodies near Salt Lake City which can be the gold has all gone into the solution and hands it has since fallen." profitably mined for \$2.50 a ton, and there | you have this fluid made up of water and is one mine there where the cost of reduc- | gold and cyanide floating around through with chemicals and gases, and out of them | the gold drains out through the canvas in Germany for getting the gold out of the | to the ton contains a thousand dollars' worth of gold. Of this \$970 worth has gone The most important process, however, is | into the water, leaving a waste of only \$30

GOLD FROM WATER.

We have now several hogsheads of gold-

the water much on the same principle as self-respecting, old-time slave class, and The biggest and most perfect of all so the zinc prepared in circular discs of the size of a dinner plate and about as thick This zinc excelsior is now put into steel vats about eighteen feet long and four feet wide and two feet deep. These vats each compartment is loosely filled with this zine excelsior. Now the cyanide solution, with its gold in it, is turned into the vat golden water washes the zinc shavings the atoms of gold leave the water and stick to given up its gold. The zinc under its influence gradually turns from a bright sil- like up in Injianny, I tell 'em." ver to a dirty yellow. It grows heavier and heavier with its golden load, until it has at last gathered all the gold. The solution is then drawn off through holes the bottom of the vat and strengthened up The zinc and gold is put into a furnace and smelted, and after a short time the result is a brick of solid gold, purer than that which is used for wedding rings or

FRANK G. CARPENTER MIDSUMMER PLEASANTRY

Isabel's Analysis. Isabel, junior, has been exposed to great deal of indiscreet talk about "art." and, though she has made diligent inquiry on the subject, she has never yet met anyone who could satisfactorily impart to her six-year-old intelligence a clear idea what "art" really is. She, the other day, however, discovered for herself. A longhaired, slender-legged gentleman from an Eastern art center appeared at the lake resort where Isabel was staying with her father and mother, and, while there, the tage. The child listened breathlessly to all he had to say, scanned curiously the vait makes you act like you haven't got any

Julia's Fanx Pas.

Julia was the newest wheelwoman in party the other night, and the wild way the boulevards and whirled around cordening. She wobbled along energetically in hardly believe would ever happen. Finally,

An Expert Opinion.

which for months has struggled bravely along, and has finally got itself safely unvarious architectural points of the edifice. back to vestibule. One visiting young church-isn't it beautiful?" "Beautiful?" Miss Hopkins echoed, with

a charming smile. "It is much more than eautiful-it is out-and-out stylish.

A Curious Volume.

"When I was a little girl," said a bright

member of the Veranda Club, "my older

An Oracle Gone Wrong. Miss Lampton was going away on the early train to Washington the other morning, and her devoted mother promised to see that nothing happened to make her miss the necessary early start; she should be called and the early breakfast should be ready at the proper time. At 5 o'clock | David's, so we will attempt to classify, the attentive mother tapped on the briefly, that each of us may know where daughter's door: "It is only 5 o'clock, Lucy, you can go to sleep again; I'll call you in plenty of time." So Lucy dozed away into species needs no particular definition. All to ask an explanation from the placid tinctured not with a grain of fact, but is a mother, who was leisurely reading the full-blooded, thoroughbred, out-and-out lie morning paper, that gentle dame looked To this class belong some of the low stories over her glasses and said serenely: "Why, of the sensational press, the foul utterances world like alum. It now costs from thirty en water. It looks like common water. It Lucy, you needn't be in such a hurry-it of vituperative malice and the unclean acwill have a fortune. The Andes are full hoofs, horns and refuse of cattle, and it is pitcher you might drink it by mistake. We hasn't come yet. He always comes at half past 6. I intended to call you when the milk boy came."

"Gobbidge Bar'ls." Aunt Maria had just returned from a portly mulatto woman of the respectful, that by which it has been extracted from | she had a few pungent comments to make needed to gather all these little molecules | dirty gutters. Up here whar I live, I tell 'em, of gold. The surface is got by having our alleys iz kep' cleaner than their streets -yes'm-an' we has gobbidge bar'ls, an' yer dasn't throw no corn huskin's, ner banana skins, ner apple co's, ner nuthin' on ther bidge bar'ls, I tells 'em. An' my darter lives fine-up thar in Injianny, I tell 'em; she's yes' gran'; got bo'd walks ter all 'er woodsheds an' 'er chicken coops, an' she have partitions running through them, and | don' have ter put 'er foot on ther naked groun'-no'm, she don't. Injianny's a sweet State, I tells 'em. An' them sassy nigger wimen ahangin' roun' on th' corners with and so arranged that it will slowly flow | ther colthes thes a-fallin' off 'em in rags an' dirt-h'm, h'm, honey, I wuzn't never brung up that away; my ole Miss brung me up clean. Yes'm, she did. Laws, laws, Loosville's a sweet ole town, but it's awful dirty; they'd oughter have gobbidge bar'ls

Her Trials.

Amid all this talk about the "new womin order to be used to gather more gold. very much against her own will. Into a fashionably attired young woman dragged | has kept up with the times, destroying with heavy steps and sank down on a bench as if she wished the world would until I am nearly dead-just to please

Nursery Psychics.

Little John has a clergyman grandfather expected that the small boy ought to be way ahead of other small boys in biblical lore. Such is not always the case, however, entirely vanished from his four-year-old memory. Such was the case the other day, intended to hurl at them if she ever caught | the creed in concert, however, little John heard them say "Father, Son, and Holy his unique, delicious drawl: "I-saw-aghost-once; it-was-in-a-Punch-and-Judyshow-and-it-was-ter-ri-ble.'

Influence of a Single Book.

Lewiston Journal.

where the judge was chatting with friends and began to search among the law books "You'll find that in the Thirteenth Maine; Cutler against Pope," said

was a boy," said the judge, "I had one law | ities. port.' I read that book over and over, until I almost had it by heart. And I have Its cases seemed to spread out and thousands of questions I have had to pass upon. I had it so thoroughly I could recall it when the doctrines of other books

were not at all clear to me. She Kissed Him.

Several hundred thousand indignant unbalanced is a poor excuse. What right hopes that most any catastrophe may over-has the city of Chicag, to allow young take her rather than another visit from women of unbalanced minds to roam at this same personage. There are the everyfenseless men? There is decency in all things, and if the power of man is limited in the bestownl of his salutes he is at least entitled to protection when he is the receiving end. The old man cannot concede everything to the new woman.

day expressions, "Not at home," which the housemaid is instructed to give the caller: the "so sorry to have missed your call," and "so disappointed not to find you in:" and a score of other social the which is

#### THE VOICE OF THE PULPIT

ANOTHER DISCOURSE BEARING ON EVERY-DAY CHRISTIANITY.

"White Lies and Black" the Subject Chosen by Rev. C. G. Mosher, of the Free Baptist Church, Bangor, Me.

I said in my haste, all men are liars,

Psalms, exvi. 11. It was a very sweeping assertion that the Psalmist made, and one that incriminates us all. He probably did not mean that all men were liars in the sense that everybody always spoke untruthfully, but that the great majority of people would under certain stress of circumstances, equivocate to suit the conditions of the occasion. If that was what he meant he utly one day: "All men are llars." hasty utterance, facts seem to prove its stood. It would be effort wasted to spend much time in proof of this assertion of

First there is the deliberate lie. This are acquainted with it, all have met it, some have uttered it. You all know it This lie contains not an atom of truth, is

The lie of gossip is perhaps the best human or divine the gossiping tongue could be silenced and the tattling mouth effectually closed, half of the evil of this world would already be stopped and the other half would commence to languish for want of patronage. The lie of gossip is the blackest of all the black horde, the worst of the whole evil troop; insinuating, sly and crafty, it creeps around with a serpent's stealth and carries beneath its tongue the poison of a thousand adders. The venom can be extracted from the cobra's fangs, but no power on earth can tame the tongue of an unprincipled gossip. Some lies you can kill, but the lie of gossip is imperishable. You may clip its wings, but its flight is unhindered; you may cut off its head, but two will grow out in its place; you may crush it to earth beneath the heel of denial, but it will rise again strong and robust. Let it alone and possibly the dirty thing will die; touch it not and it may droop and languish; do not chase it and it may grow weak for want

Then there is the diplomatic lie. Not so black as the last, not so corrupt, never so foul, but a lie nevertheless, having all of the family characteristics. All diplomacy is not lying, but many lies are more or less diplomatic. The diplomatic lie is much used in arranging terms between two rival parties by the agents of the one party or the other. It is a handy thing. It takes a great diplomat to use it to its greatest advantage. It is a fine art to solemnly affirm with sanctimonious countenance and in plausible language that which a person knows to be destitute of truth. Satan is a great diplomat himself, having had some little experience in the business. He used diplomacy in the garden of Eden and he

many an Eden since.

In seeking office the diplomatic lie comes come to an end. An acquaintance accosted | into play sometimes. A great man desires a certain government position. The more exhausted. "Oh," she answered, "I'm just he thinks of it the more he wants it. He never been heard of. But Harry wants me | sallies forth to see his friends. He tells to be one, and so I am trying. I hate bi- them that he has been urged for a long cycles and I despise bloomers, but I ride | time to run for a certain position; at first he spurned the idea, feeling his own in-Harry. He wanted me to learn to fire a competency, but now it seems clear to gun and I tried it, but the old thing kicked him that it might be for the good of a my shoulder black and blue, beside scar- most righteous cause for him to run for ing me into a nervous chill. I've taken | that particular position, and though he fencing lessons and I play tennis and golf | feels as rejuctant as ever, he is willing to until I can hardly stand up. Our children | sacrifice his natural modesty for the good run wild and are the pest of the neighbor- of the party. He does not forget to add heed. One of the old-fashioned mothers in | that, while a "job" or suggestion of one our block took little Belle in the other day | is far beneath him, yet in case he should an excellent plan to elect him to stay at

The campaign lie next suggests itself as closely allied to this latter. A large, openfaced fellow, loud-voiced and blatant; bold, daring and sweeping; it claims everything, asserts everything, denies anything. During the campaign this lie is an important factor. Men buy papers to read it and go greatest worker in the canvass is elected, he will have to carry liver and codfish. He grasps the merchant strongly by the hand and promises him larger sales and better profits in case his party gets into election, when he has no more promises to

Once every four years the campaign lie

There is the polite lie, too. A very genteel affair this. A very proper scriptions and shapes. They have much in common, but differ widely in particular, and classic falsehood. The ancients used it, the moderns still cling to it; the poor find it handy, the rich could not keep house without it; it abounds in every clime, and says to the departing guest: "We have hopes that most any catastrophe may over-